

ABSTRACT OF THE DISCLOSURE

A semiconductor device includes a semiconductor substrate, an insulating layer, an inductor, a guard ring and a potential-applying line. The insulating
5 layer is formed on the semiconductor substrate.
The inductor is formed on the insulating layer.
The guard ring is formed in the semiconductor substrate, surrounding the inductor and being a closed
ring composed of waving segments connected, end to end.
10 The potential-applying line applies a predetermined potential to the guard ring.